GCCS-M: Command, Control, and Intelligence to the Warfighter

Common Operational Picture Provides:

- Total Battlespace Situational Awareness
- Operations and Intelligence Display
- Multi-Mission Support, including
  - Time Critical Strike
  - Force Protection
  - Power Projection
  - Homeland Defense
- Joint and Coalition Interoperability
- Web-Enabled Applications
- Speed of Command to SIPRNET

Fielding

- Over 300 Ships including all command ships
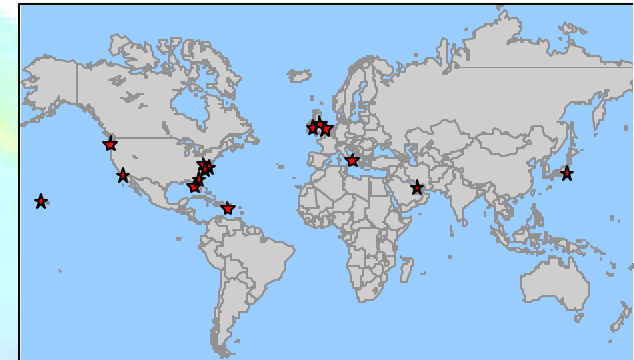- Over 24 Commands plus Tactical Mobile Sites

Capabilities

- Near Real-Time Track Dissemination via COP Synch Tools
- Theater Ballistic Missile Warning & Display
- Integrated Gale Lite Software
- Target Management
- Integrated Imagery and Intelligence Tools
- Multi-TADIL Capability
- Waterspace Management
- Scheduling

Ability to Interface With:

- TES-N/NFN
- Weapons Systems (ATWCS, TTWCS, NFCS...)
- Precision Targeting Tools (JSIPS-N, PTW...)
- Mission Planning Tools (TAMPS, JMPS, PFPS, TBMCS...)
- Cryptology (CUB, SSEE, BGPHES...)
- Sensors (JSTARS, TADIL, Aegis...)

Technical Strategy

- Interoperability via DII COE
- Transition to PC-based architecture
- Combined Tactical and Non-tactical Networks
- Extensive Use of COTS

PMW-157 Products

- **Global Command and Control System-Maritime (GCCS-M)** is the Navy's fielded Command and Control system, providing the Navy's tactical implementation of Joint Services GCCS. GCCS-M has aggressively pursued an evolutionary Acquisition strategy by rapidly developing and fielding new Command, Control, Computers and Intelligence capabilities for Naval warfighters.

- **Theater Battle Management Core Systems (TBMCS)** is an Air Force-developed capability used by all services to plan and disseminate joint Air Tasking Orders (ATO). TBMCS is fully integrated into GCCS-M, which has significantly enhanced joint interoperability and eliminated several redundancies. SPAWAR started fielding TBMCS in early FY-01.

- The **Ocean Surveillance Information System (OSIS) Evolutionary Development (OED)** supports command, control and intelligence analysis and dissemination. Located at Joint Intelligence Centers and with several allies, OED provides timely fused intelligence products at a variety of classification levels. OED supports single-service, joint and coalition forces, including counter-terrorism and counter-narcotics operations.

- **Radiant Mercury** automatically sanitizes and downgrades multi-level classified, formatted information for release to operators. Capabilities include automated sanitization from SCI to SECRET and US Only to Releasable, format transliteration, communications guard, data field integrity, audit, and post-event reconstruction services.

- **GCCS Integrated Imagery & Intelligence (GCCS-I^3)** provides Common Operational Picture (COP) - centric intelligence and imagery-related capabilities developed by the four Military Services and selected Agencies in response to Joint Warfighter requirements. Through the GCCS-I^3 integration process, these tools provide Intelligence Support to Operations seamlessly within the GCCS family of systems.

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PMW-157 Web Sites

Fleet Support Home Page:
https://gccs-m.spawar.navy.mil/

Program Manager's Site:
https://nccs.spawar.navy.mil/

Requirements Database:
https://copernicus.spawar.navy.mil/

Development and Delivery of World-class Command, Control, and Intelligence capabilities to the Warfighter

The mission of the Naval Command & Control Systems program office (PMW157) is to provide the U.S. Navy and other customers with integrated Command, Control, and Intelligence (C2I) Applications, Capabilities, and Systems. We develop, upgrade, procure, field, train and support Tactical Warfighting systems to satisfy Naval, Joint, and Coalition C2I requirements. To meet emerging threats and sustain state-of-the-art installations, the C2I Capabilities we provide will be affordable, common, scalable, and interoperable. We achieve this capability through open information system architectures and commercial off-the-shelf leading-edge technology while providing high levels of customer satisfaction and service.